Acid(s), amino, transport, effect of adrenal steroid hormones on, 604
in tumor-bearing rats, 267
ascorbic, of adrenals, developmental changes in, 1208
fatty, plasma nonesterified, acute reduction of, by GH, 665
rat serum cholesteryl ester, in rats, 1047
Acidosis, effect on recovery from hypocalcemia of, 1202
ACTH, effects of, on activities of soluble cell fraction and microsomes for incorporation of amino acid into protein, 795
on insulin release, 1093
on reproductive tract, 434
α-ethyltryptamine inhibition of, 526
feedback mechanisms of, effect of hypothalamic and mesencephalic steroid implantation on, 811
inhibition of adrenal protein synthesis by, 801
pituitary, effect of rat median eminence extracts on, 240
production of, 895
synthesis of, effect of CRF on, 122
response of regenerating adrenal glands to, 819
ACTH cells, fine structure of, in adrenalectomized rat, 70
ACTH-producing tumor, hepatic effects of, 902
Adrenalectomy cells, characteristics of, 70
Adrenals, developmental changes in size and ascorbic acid content of, 1208
regenerating, steroids of, 819
Adrenocorticotrophin and adrenal protein synthesis, 745
Adreno-orchidectomy, maintenance of mammary lobulo-aveolar system after, 1220
Albumin, serum, ^{131}I labeling of, 570
Aldosterone, role of 18-hydroxylation in biosynthesis of, 514
secretion of, in renin-treated dogs, 1141
role of renin-angiotensin system in regulation of, 657
Alkalosis, effect on recovery from hypocalcemia of, 1202
Allylisothiocyanate, goitrogenic activity of, 151
2-Aminofluorene, restoration by iodide of hepatic reactions to, 1027
Amylase activity, submandibular gland, 776
Androgen(s), antagonism by Ro 5-2537, 1062 and histamine, 839
production of, by mouse testes, 591
synthesis of, by testis components, 646
testicular, and GTH, 347
Angiotensin, effect on aldosterone secretion, 657
Antiestrogens, nonsteroidal, influence on vaginal opening and ovulation, 865
Anti-HCG, bio-assay of, 20
Antithyroid activity, and protein binding, 584
Armadillos, *in vitro* steroid synthesis by adrenals and testes of, 43

Bone matrix, effects of hypophysectomy and parathyroid extract on, 198

Calcium, serum, effect of parathyroidectomy on, 9
effect of thyroid gland on, 103
Calorigenic effects, synergism between, 335
Cartilage, transformation of, to ligament, in hypophysectomized mice, 876
Catalases, role of, in deiodination of thyroxine in frog liver, 479
CBG, role in rat lactation, 1079
Cerebral ablation, effect on circadian pituitary adrenocorticotropic rhythm, 895
Chelating agents, estrogen-like effect of, 491
Cholesterol metabolism, influence of thyroid hormones on, in rats with ovarian cysts, 1041
Corticoid(s), adrenal, action on protein metabolism of, 418
metabolism of, regulation of, 52
Corticosteroids, effect on carbohydrate formation in liver, 191
Corticosterone, plasma, effect of 3′,5′-AMP on, 933
Corticotropin, stimulation of insulin release by, 1093
Corticotropin-releasing factor. *See* CRF
Cortisol, genetics of hydroxylation of, 753
hypophysial changes with, 362
and thymidine-2-^{14}C incorporation, 1100
CRF, changes in median eminence content of, 122
and pituitary ACTH, 240
Cystamine, stimulation of thyroidal iodide concentrating ability by, 949

Dehydrogenase(s), glucose-6-phosphate, activity of, in subcommissural organ, 996
glycerophosphate, sperm, 1055
hydroxysteroid, in human term placenta, 403
steroid, and superovulation, 382
testicular steroid, species variation in, 463
Dehydroisoandrosterone as main source of 11-desoxy-17-ketosteroids in the boar, 427
Deiodination of thyroxine, role of catalyses and peroxidases in, 479
Diabetes insipidus, oxytocin as antiduretic inhibitory substance in, 999
Diethylstilbestrol, effects on oxytocic potencies of neurohypophysial hormones and analogues of, 90
Drugs, psychotropic, effect on rat liver tryptophan tyrrolase of, 1190
Ductus deferens, hormonal effects on phosphorylase action and glycogen levels in, 870

Electromyographic studies with pituitary extracts, 783
Electrophoresis of pituitary glands, 578
Endometrium, metabolism in estrous and pseudopregnant rabbit of, 542
Enzyme, iodinating, from calf thyroid, 632
Enzyme activity of microsomes, release of, 563
Eosinophils, tissue, as source of uterine peroxidase, 301

Acid(s), amino, transport, effect of adrenal steroid hormones on, 604
in tumor-bearing rats, 267
ascorbic, of adrenals, developmental changes in, 1208
fatty, plasma nonesterified, acute reduction of, by GH, 665
rat serum cholesteryl ester, in rats, 1047
Acidosis, effect on recovery from hypocalcemia of, 1202
ACTH, effects of, on activities of soluble cell fraction and microsomes for incorporation of amino acid into protein, 795
on insulin release, 1093
on reproductive tract, 434
α-ethyltryptamine inhibition of, 526
feedback mechanisms of, effect of hypothalamic and mesencephalic steroid implantation on, 811
inhibition of adrenal protein synthesis by, 801
pituitary, effect of rat median eminence extracts on, 240
production of, 895
synthesis of, effect of CRF on, 122
response of regenerating adrenal glands to, 819
ACTH cells, fine structure of, in adrenalectomized rat, 70
ACTH-producing tumor, hepatic effects of, 902
Adrenalectomy cells, characteristics of, 70
Adrenals, developmental changes in size and ascorbic acid content of, 1208
regenerating, steroids of, 819
Adrenocorticotrophin and adrenal protein synthesis, 745
Adreno-orchidectomy, maintenance of mammary lobulo-aveolar system after, 1220
Albumin, serum, ^{131}I labeling of, 570
Aldosterone, role of 18-hydroxylation in biosynthesis of, 514
secretion of, in renin-treated dogs, 1141
role of renin-angiotensin system in regulation of, 657
Alkalosis, effect on recovery from hypocalcemia of, 1202
Allylisothiocyanate, goitrogenic activity of, 151
2-Aminofluorene, restoration by iodide of hepatic reactions to, 1027
Amylase activity, submandibular gland, 776
Androgen(s), antagonism by Ro 5-2537, 1062 and histamine, 839
production of, by mouse testes, 591
synthesis of, by testis components, 646
testicular, and GTH, 347
Angiotensin, effect on aldosterone secretion, 657
Antiestrogens, nonsteroidal, influence on vaginal opening and ovulation, 865
Anti-HCG, bio-assay of, 20
Antithyroid activity, and protein binding, 584
Armadillos, *in vitro* steroid synthesis by adrenals and testes of, 43

Bone matrix, effects of hypophysectomy and parathyroid extract on, 198

Calcium, serum, effect of parathyroidectomy on, 9
effect of thyroid gland on, 103
Calorigenic effects, synergism between, 335
Cartilage, transformation of, to ligament, in hypophysectomized mice, 876
Catalases, role of, in deiodination of thyroxine in frog liver, 479
CBG, role in rat lactation, 1079
Cerebral ablation, effect on circadian pituitary adrenocorticotropic rhythm, 895
Chelating agents, estrogen-like effect of, 491
Cholesterol metabolism, influence of thyroid hormones on, in rats with ovarian cysts, 1041
Corticoid(s), adrenal, action on protein metabolism of, 418
metabolism of, regulation of, 52
Corticosteroids, effect on carbohydrate formation in liver, 191
Corticosterone, plasma, effect of 3′,5′-AMP on, 933
Corticotropin, stimulation of insulin release by, 1093
Corticotropin-releasing factor. *See* CRF
Cortisol, genetics of hydroxylation of, 753
hypophysial changes with, 362
and thymidine-2-^{14}C incorporation, 1100
CRF, changes in median eminence content of, 122
and pituitary ACTH, 240
Cystamine, stimulation of thyroidal iodide concentrating ability by, 949

Dehydrogenase(s), glucose-6-phosphate, activity of, in subcommissural organ, 996
glycerophosphate, sperm, 1055
hydroxysteroid, in human term placenta, 403
steroid, and superovulation, 382
testicular steroid, species variation in, 463
Dehydroisoandrosterone as main source of 11-desoxy-17-ketosteroids in the boar, 427
Deiodination of thyroxine, role of catalyses and peroxidases in, 479
Diabetes insipidus, oxytocin as antiduretic inhibitory substance in, 999
Diethylstilbestrol, effects on oxytocic potencies of neurohypophysial hormones and analogues of, 90
Drugs, psychotropic, effect on rat liver tryptophan tyrrolase of, 1190
Ductus deferens, hormonal effects on phosphorylase action and glycogen levels in, 870

Electromyographic studies with pituitary extracts, 783
Electrophoresis of pituitary glands, 578
Endometrium, metabolism in estrous and pseudopregnant rabbit of, 542
Enzyme, iodinating, from calf thyroid, 632
Enzyme activity of microsomes, release of, 563
Eosinophils, tissue, as source of uterine peroxidase, 301

Epinephrine, effect on recovery from inducted hypocalcemia, 58
Epithelium, seminiferous, duration of cycle of, 80
Estradiol, 17α-, double glycoside of, 600
effects of, on serum cholesteryl ester fatty acids, 1047
on sugar distribution, 470
and ethamoxytriphetal (MER-25) effect on mouse uterus, 127
formation by granulosa and theca cells of, 108
hypophysial changes with, 362
Estriol, relative transfer across fetal membranes, 722
Estrogen(s), advancement of puberty by, 1158
bio-assay of, by intravaginal injection, 131
early effect on phosphate metabolism of, 553
effect of, on copper-induced ovulation, 1205
failure of, to produce hypocholesterolemic effect, 766
fetal membrane permeability to, 722
inactivation by uterus of, 301
luteolytic effect of, on corpora lutea of pregnancy, 1213
secretion of, by luteinized ovaries, 246
uterine response to, effect of dietary protein lack, 539
in vivo glycogen synthesis after administration of, 63
Ethamoxytriphetol (MER-25) effect on mouse uterus, 127
Ethylenediaminetetraacetic acid, effect on phosphorylase, 491
α-Ethyltryptamine, inhibition of ACTH by, 526
Extract(s), hypophysial, of normal and dwarf mice, 210
hypothalamic, stimulation of FSH release by, 614
parathyroid, effects of hypophysectomy and, on bone matrix, 198
inhibition of calcium-mobilizing activity of, 343
pituitary, electromyographic studies with, 783

Fallopian tube, metabolism in estrous and pseudopregnant rabbit of, 542
Fasting, effects of, on metabolism of anterior pituitary, 1022
Feedback relations, brain-corticoid, 811
FFA, and ketone bodies, after glucose load, 910
Fibroblasts, effects of steroids on, 916
Follicle-stimulating hormone. *See* FSH
FSH, control, in males, 1033
effect of, on androgen in spermatic vein blood, 347
on assay of LH, 1150
on ovarian nucleic acid, 332
separation of LH, TSH and, 27
stimulation of release of, by hypothalamic extracts, 614
FSH-releasing factor, separation from LH-releasing factor of, 290

Gerbil, effect of hormones on abdominal sebaceous gland pad of, 1115
GH, and acute plasma NEFA reduction, 665
bovine, sulfitolysis of, 522
content of, in pituitary gland of starved rats, 787
effect of, on insulin secretion in sheep, 1109
and glucose metabolism, 1134
in adipose tissue, 216
of normal and dwarf mice, 210
rat, immunoassay of, 928
and prolactin, 678
Gland(s), adrenal, steroid 11β-oxygenation, ascorbic acid, epinephrine and adrenochrome interrelations in, 773
pituitary, electrophoresis of, 578
sialic acid concentrations in, 994
thyroid, protein and nucleic acid content of, 171
Glucocorticoid effects, on brown and white adipose tissue, 549
Gluconeogenesis, effect of puromycin aminonucleoside on, 191
Glucose, ketone bodies and FFA after, 910
metabolism of, in adipose tissue, actions of growth hormone on, 216
effect of GH on, 1134
Glycerophosphate dehydrogenase, sperm, 1055
Glycogen, effects of centrifugation and starvation on, 203
levels of, in ductus deferens, hormonal effects on, 870
luteal, and effect of luteinizing hormone, 390
synthesis of, uterine, 63
Glycogenolysis, uterine, in estrogen-primed rat, 686
Glycolysis, activity levels of enzymes concerned with, in thyroid cells, 178
Glycoside, double, of 17α-estradiol, 600
Goiter, congenital, in cattle, 353
Gonadotropin(s), cyclic discharge of, 226
ovarian compensatory hypertrophy from increases of, 97
ovine, tannate complexes of, 139
thyroxine and response to, 194
Growth hormone. *See* GH
Growth-promoting substance, uterine, 844

HCG, bio-assay of antisera against, 20
effect of, on androgen in spermatic vein blood, 347
on ovarian nucleic acid, 332
tannate complexes of, 499
Heme protein fraction; porphyrin group of, isolated from mammalian thyroid microsomes, 555
Hemicastration, ovarian hypertrophy after, 97
HGH, placental factor similar to, 369
Histamine and androgen, 839
Hormone(s), adrenal steroid, effect on amino acid transport, 604
adrenocortical, hepatic autoregulatory mechanism for, 52

effect of several on total pancreatectomy in lizards, 989
gonadal, effect on amylase activity in C57BL/6J mice, 776
gonadotrophic, effects of administration of, 382
neurohypophysial, and analogues, effects of diethylstilbestrol and magnesium on, 90
parathyroid, effect of kidney slices on activity of, 255
hydrolysis of, 979
steroid, effect on litters of lactating rats, 1089
treatment of lactating mothers with, effect on litters, 1089
thyroidal, early effects of, 323
Hoskins, Roy Graham, article on, 1007
Human chorionic gonadotrophin. *See* HCG
Hydroxycortisol derivatives, genetic determination of ability to form, 753
18-Hydroxylation, role in biosynthesis of aldosterone, 514
Hydroxyproline of cartilage, specific activity of, after hypophysectomy, 198
Hydroxysteroids, Δ^5-3β-, species variation in, 463
Hypertrophy, ovarian, after hemicastration, 97
Hypocalcemia, effect of acidosis and alkalosis on recovery from, 1202
induced, effect of sympathetic stimulation, epinephrine and phentolamine on recovery from, 58
Hypophysectomy, and bone matrix, 198
Hypophysial extracts, of normal and dwarf mice, 210
Hypothalamic extracts, stimulation of FSH release by, 614
Hypothalamus, gonadal activity and sexual differentiation of, 226

^{131}I, labeling of serum albamin by, 570
role of thyrotropic hormone in metabolism of, 35
^{131}I-TSH, preparation and adsorption of, 828
$^{131}I^-$ kinetics *in vitro*, 441
Implantation, in the rabbit, 535
Inbreeding, selective, to alter juxtaglomerular index, 486
Index, juxtaglomerular, selective inbreeding to alter, 486
Insulin, activity of, endogenous and exogenous, hypoketonemia caused by, 910
circulating "free" and "bound," 709
effects on water uptake by adipose tissue, 531
release of, effect of ACTH on, 1093
secretion of, effect of GH on, 1109
Iodide, restoration of hepatic reactions to 2-aminofluorene by, 1027
thyroidal, accumulation and loss *in vitro* of, 441
transport of, thyroidal, cystamine and cysteamine in, 949
Iodinating enzyme, from calf thyroid, 632
Iodotyrosines, in goitrous cattle, 353
synthesis of, and puromycin, 295

Juxtaglomerular index, selective inbreeding to alter, 486

Ketone bodies, and FFA, after glucose load, 91(
17-Ketosteroids, urinary excretion of, 427
Kidney slices, effect on parathyroid extract, 25

Lactation, role of CBG in rat, 1079
LH activity of, effect of chemical complexes o
ovine gonadotropins on, 139
duration of response to, 259
effect of FSH on assay of, 1150
effectiveness of, in eliciting signs of estroge
secretion, 246
equine, preparation of, 762
maintenance of normal testicular weight i
males by, 1033
ovarian ascorbic acid depletion assay for, 16
ovarian responsitivity to, 276
release of, ovulatory and post partum, 620
after progesterone withdrawal, 626
timing of, 958
secretion of, testosterone and, 412
separation of FSH, TSH and, 27
LH-releasing activity in plasma of hypophysectomized rats, 272
LH-releasing factor, hypothalamic, fluctuations in during estrous cycle, 282
separation of FSH-releasing factor from, 290
LH-RF, alterations in, 700
Ligament, transformation of cartilage to, in hypophysectomized mice, 876
Litters, of rats, steroid-hormone treatment effect on, 1089
Lobulo-alveolar system, mammary, after adreno-orchidectomy, 1220
LtH secretion, pituitary, and oxytocin, 1
Luteinizing hormone. *See* LH
Lysine, influence of temperature upon, 396

Magnesium, effects on oxytocic potencies of neurohypophysial hormones and analogues of, 90
Mammary glands after prenatal exposure to testosterone propionate, 789
Mammary involution, oxytocin, prolactin and, 1
Median eminence, changes in CRF content of, 122
effect on ACTH synthesis, 240
Melatonin, changes in enzymatic synthesis of, in pineal during estrous cycle, 798
MER-25, effect of estradiol and, on mouse uterus, 127
Metabolic alterations, stress-induced, 203
6α-Methylprednisolone-^{3}H,21-acetate, metabolism of, 852
Midbrain, in control of ACTH, 811
Monophosphate, adenosine 3′,5′-, steroidogenic effect of, 933
MRL-41, influence on vaginal opening and ovulation, 865

Neurohypophysial hormones and analogues, effects of diethystilbestrol and magnesium on, 90
Neurohypophysis, and oviposition, 673
Norethindrone, blockade of ovulation by hypothalamic implants of, 691
Nucleic acid synthesis in rat thyroid, 737

Ovary, luteinized, estrogen secretion by, 246
thyroid, and cholesterol metabolism, 1041
Oviposition, after removal of posterior lobe of pituitary, 673
Ovulation, after antiestrogen treatment, 865
blockade of, by hypothalamic implants of norethindrone, 691
copper-induced, effect of estrogen on, 1205
PMS-induced, 1177
post-partum, in the rat, 620
from preoptic stimulation, 1195
"progesterone-withdrawal," 626
Oxytocic potencies, effects of diethylstilbestrol and magnesium on, 90
Oxytocin, effect on glucose metabolism, 216
hen oxytocic activities of, 161
inhibition of vasopressin antidiuresis by, 999
relationship between prolactin secretion and, 1

Pad, glandular, of gerbil, effect of hormones on, 1115
Pancreatectomy, effects of several hormones on, 989
Pancreatic islets, phosphatases in, 315
Parathyroid extract, effects of hypophysectomy and, on bone matrix, 198
inhibition of calcium-mobilizing activity of, 343
Parathyroid hormone, effect of kidney slices on activity of, 255
hydrolysis of, 979
Parathyroidectomy, follow-up in dogs, 9
$PB^{131}I$, effect of puromycin on, 295
Permeability, of connective tissue, in adrenalectomized and hypophysectomized rats, 408
Peroxidases, role of, in deiodination of thyroxine in frog liver, 479
Phentolamine, effect on recovery from induced hypocalcemia, 58
Phosphatases, in pancreatic islets, 315
Phosphate metabolism, early effect of estrogen on, 553
Phosphorus concentration, effect of parathyroidectomy on, 9
Phosphorylase, activity of, in ductus deferens, hormonal effects on, 870
estrogen-like effect of chelating agents on, 491
luteal, and effect of luteinizing hormone, 390
Pituitary, anterior, metabolism of, in fasting, 1022
extracts of, electromyographic studies with, 783
pigeon, release of prolactin by, 1169
Pituitary glands, electrophoresis of, 578
sialic acid concentrations in, 994
Placenta, human term, hydroxysteroid dehydrogenases in, 403
rat, survival of, in spleen, 1068
PMS, ovulation induced by, 1177
ovulatory response to a single injection of, 958
tannate complexes of, 506
Porphyrin group, of heme protein fraction, isolated from mammalian thyroid microsomes, 555
Prednisolone, antigranulomatous activity of Vitamin K_1 and summation with that of, 780
Pregnancy, corpora lutea of, effect of estrogen on, 1213
Pregnant mare serum. *See* PMS
5-Pregnenolone-7α-^{3}H, sequential biotransformation into androgens of, 591
Progesterone, dosage required to achieve implantation in the rabbit, 535
ovulation following withdrawal of, 626
Progesterone-4-^{14}C, androgen synthesis from, by testis components, 646
sequential biotransformation into androgens of, 591
Prolactin, in adenohypophysis of lungfish and tetrapods, 156
effects in sheep, 1109
nursing and stress effects on, 883
rat growth hormone and, 678
release from pituitary gland by exteroceptive stimuli, 340
secretion of, relationship between oxytocin and, 1
Protein, binding of, and antithyroid activity, 584
incorporation of amino acid into, effects of ACTH on, 795
lack of dietary, effect on uterine response to estrogen, 539
metabolism of, action of adrenal corticoids on, in thiouracil-treated rat, 418
in pregnant rat, 454
placental, purification of, 369
synthesis of, adrenal, inhibition of, by ACTH, 801
"supernatant factor" in, 745
turnover of, in thyroid glands of larger mammals, 171
Puberty, advancement of, by estrogen, 1158
Pubic joint cartilage changes in hormonally treated mice, 876
Puromycin, inhibition of calcium-mobilizing activity of parathyroid extract by, 343
and iodotyrosine synthesis, 295
thyroxine synthesis in isolated thyroid cells treated with, 163
Puromycin aminonucleoside, effects on liver carbohydrate synthesis of, 191
Pyrimidines, relationships to thiouracil, 728
Pyrrolase, tryptophan, stress and, 1190

Radioiodine labeling of serum albumin, 570
Renin, hog, aldosterone secretion in dogs immunized with, 1141
Renin-angiotensin system, role of, in regulation of aldosterone secretion, 657
Reproductive tract, effect of ACTH on, 434
Ro 5-2537, endocrine data on, 1062

Salicylates, antithyroid effect of noncalorigenic congeners of, 584
Sialic acid, concentrations of, in pituitary glands, 994
Spermatogenesis, effect of steroids on, 1184
hormonal influence on, 80
Spermatozoa, rat, α-glycerophosphate dehydro-

genase activity in, 1055
Spleen, survival and endocrine function of rat placenta in, 1068
Steroid(s), and amino acid transport, 604
biosynthesis of, by feminizing testes, 966
influence of temperature upon, 396
effect of, on fibroblasts, 916
on spermatogenesis, 1184
formation of, role of granulosa and theca cells in, 108
hypophysial changes with, 362
maintenance of pregnancy in absence of dietary protein by, 454
C_{19} steroids, in spermatic venous blood, following gonadotropin administration, 347
Steroid fractions, from regenerating rat adrenals, 819
Steroid hormone synthesis, role of epinephrine-adrenochrome-ascorbic acid in, 773
Steroid synthesis, of fetal and adult armadillo, 43
Steroidogenesis, decreased, with sucrose diet, 771
Stimulation, preoptic, ovulation from, 1195
Stress, acceleration, acute, metabolic alterations in rats exposed to, 203
Sucrose diet, decreased steroidogenesis with, 771
Sugar distribution, estrogen effects on, 470
Sulfitolysis, of growth hormone, 522
Superovulation, and steroid dehydrogenase, 382
Sympathetic nerve, and hypocalcemia, 58

Tannate complexes, of HCG, assay characteristics, 499
of PMS, assay characteristics, 506
Testes, feminizing, steroid biosynthesis by, 966
Testosterone, effects of, on serum cholesteryl ester fatty acids, 1047
formation of, by rat testes, 563
influence of temperature on biosynthesis of, 396
and LH secretion, 412
Testosterone propionate, maintenance of normal testicular weight in males by, 1033
mammary glands of mice exposed prenatally to, 789
Thiouracil-pyrimidine relationships, 728
Thymidine-2-^{14}C incorporation, effects of cortisol on, 1100
Thyrocalcitonin, in the rat, 103
Thyroid, calf, iodinating enzyme from, 632
chick, effect of thyrotropin on, 1124
ovary, and cholesterol metabolism, 1041
rat, nucleic acid synthesis in, 737
secretion of, thyrotropin alteration of, 1012
secretion rate of, potency of analogues substituted for L-thyroxine in estimation of, 537
Thyroid cells, isolated, enzyme levels in, 178
Thyroid follicles, number and size in guinea pigs, of, 329
Thyroid function, fetal, in organ culture, 35
Thyroid glands, protein and nucleic acid content of, 171
Thyroid hormones, early effects of, 323
Thyroid-stimulating hormone. *See* TSH
Thyroidectomized rats, restoration of hepatic reactions to 2-aminofluorene in, by iodide, 102
Thyroparathyroidectomy, effect on clinical course and serum calcium and phosphorus concentration of, 9
Thyrotropin, alteration of thyroid secretion by, 1012
effect on chick thyroid of, 1124
Thyroxine, analogs of, 312
metabolic and cardiac responses to, 115
biliary excretion of, relation to its binding by serum proteins, 938
catalases and peroxidases in deiodination of, 479
effects on gonadotrophin dose response line of, 194
in goitrous cattle, 353
synthesis of, in isolated thyroid cells treated with puromycin, 163
L-Thyroxine, and 2,4-dinitrophenol or sodium salicylate in euthyroid rats, 335
relative potency of several analogues substituted for, 537
Tissue, brown and white adipose, glucocorticoid effects on, 549
dermal connective, permeability of, 408
Triamcinolone, effect on corticosteroid metabolism, 52
Tricarboxylic acid cycle, activity levels of enzymes concerned with, in thyroid cells, 178
L-Triiodothyronine,3,5,3′-, binding during agar gel electrophoresis of, 547
TSH, bio-assay of, species differences of, 890
effect on utilization of ^{131}I, 35
^{131}I-, preparation and adsorption of, 828
separation of LH, FSH and, 27
stimulatory action on thyroxine production, 163
Tumor, ACTH-secreting pituitary, hepatic effects of, 902
pituitary, amino acid accumulation in rats bearing, 267

U11555A, influence on vaginal opening and ovulation, 865
Uterine muscle, urine growth-promoting substance from, 844
Uterine preparations, inactivation of estrogen by, 301
Uterus, estrogen-stimulated, kinetics of *in vivo* glycogen synthesis in, 63

Vasopressin antidiuresis, inhibition of, by pituitary extracts from diabetic rats and oxytocin, 999
Vitamin K_1, antigranulomatous activity of, and summation with that of prednisolone, 780

Water uptake, effects of insulin on, 531